

## Contributions to a Knowledge of the Heteroptera of North Korea

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**Abstract** The author checked North Korean Heteropteran specimens of 64 species belonging to 48 genera, 11 families preserved in the Hungarian Natural History Museum. Among them, *Leptopterna dolabrata*, *Mecomma ambulans*, and *Campylomma annulicornis* are newly recorded to Korean fauna.

**Key words** Taxonomy, Heteroptera, North Korea.

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### INTRODUCTION

During the last twenty years, there were a large number of contributions about Heteropteran insects to North Korea by the Eastern European specialists (Josifov and Kerzhner, 1972, 1978, 1984). They published many papers and made descriptions of many new species from North Korea (Josifov, 1976, 1977a, 1977b, 1979a, 1979b, 1982, 1983, 1985).

In January of 1991, the first author had an opportunity to visit Hungarian Natural History Museum (HNHM) at Budapest, Hungary and examined North Korean Heteropteran specimens preserved in the Heteroptera and Homoptera section of the Museum. These materials were originally collected by Drs. S. Mahunka and H. Steinmann in 1970, and Drs. S. Horvatovich and J. Papp in 1971 of Hungarian Zoological Expeditions into North Korea, except some paratype specimens designated by Prof. M. Josifov. These heteropteran specimens examined by the first author were previously identified by Prof. Josifov in 1971, and preserved without any open citation in a paper since then.

The locality names of the examined specimens were followed the present prefectural divisions (three cities and nine prefectures) in North Korea but some of them were partially revised in spelling instead of the records written originally on the label. Most of the specimen treated here are deposited at HNHM, and some of them are at the Department of Biology, Kyungpook National University, Taegu, Korea.

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## LIST OF SPECIES

## Family Miridae 장님노린재과

1. *Alloeotomus simpuls* (Uhler, 1896) 닭은소나무장님노린재

Material examined. 4 ind., Pyongyang, Pyonyang Hotel garden, 4.Aug.1971, No. 138, S. Horvatovich et J. Papp leg.

Distribution. Korea, Japan, China, USSR (Far East).

2. *Deraeocoris castanae* Josifov, 1983 밤무늬장님노린재

Material examined. 4 ind., (Paratypes), Lake Taesong near Kansong, 13-17.Aug.1977. on *Castanea* sp., M. Josifov.

Distribution. Korea.

3. *Deraeocoris koreanus* Linnavuori, 1963 무늬장님노린재

Material examined. 11 ind., Pyongyang Hotel garden, 4.Aug.1971, No. 138, S. Horvatovich et J. Papp leg.

This species was originally reported from Sariwon, North Korea by Linnavuori in 1963 with one female, 26.Jul.1950, Borchsenius leg. deposited at Leningrad.

Distribution. Korea, Japan, USSR (Far East).

4. *Deraeocoris salicis* Josifov, 1983 버들무늬장님노린재

Material examined. 6 ind., (Paratypes), Lake Taesong near Kijang, 10.Aug.1974. on *Salix* sp., M. Josifov.

Distribution. Korea.

5. *Adelphocoris albonotatus* (Josifov, 1983) 네무늬장님노린재

Material examined. 1 ind., (Pyongyang), Sangam, 45km N. from Pyongyang, 12.Aug.1971, No. 169, S. Horvatovich et J. Papp leg.

Distribution. Korea, Japan, China, Iran, USSR (Far East).

6. *Adelphocoris quadripunctatus* (Fabricius, 1794) 점변색장님노린재

Material examined. 11 ind., (Prov. Ryanggang, Plateau Chann-pay, Lake Samzi (Samziyon), 1500m 24.Aug.1971, No. 196, S. Horvatovich et J. Papp leg.

Distribution. Korea, Japan, China, USSR (Far East and Europe).

7. *Adelphocoris ponghvariens* Josifov, 1977 우리변색장님노린재

Material examined. 1 ind., (Paratype), Bonghwari bei Pyongyang, 23.Aug.1970, M. Josifov; 1 ind. Pyongyang, Bonghwari, 45km E. from Pyongyang. 16.Aug.1971, No. 178, S. Horvatovich et J.

Papp leg.

Distribution. Korea, China, USSR(Far East).

8. *Adelphocoris piceosetosus* Kulik, 1965 애변색장님노린재

Material examined. 22 ind., Pyongyang, Mt. Zamo-san 60km N.E. from Pyongyang, 2.Sept.1971, No. 231, S. Horvatovich et J. Papp leg.

Distribution. Korea, Japan, USSR(Far East).

9. *Adelphocoris triannulatus* (Stål, 1858) 설상무늬장님노린재

Material examined. 33 ind., Kaesong, Mt. Pagon-san, 20km N.E. from Kaesong, 11.Sept.1971. No. 261, S. Horvatovich et J. Papp leg.

Distribution. Korea, Japan, China, USSR (Far East).

10. *Eurystylus coelestialium* (Kirkaldy, 1902) 탈장님노린재

Material examined. 3 ind., Kaesong, Mt. Pagon-san, Pagon falls, 27km N.E. from Kaesong, 8. Sept.1971, No. 245, S. Horvatovich et J. Papp leg.

Distribution. Korea, China, USSR (Far East).

11. *Eurystylus luteus* Hsiao, 1941 동쪽탈장님노린재

Material examined. 1 ind., Pyongyang, Mt. Zamo-san, 60km N.E. from Pyongyang, 2.Sept.1971, No. 231, S. Horvatovich et J. Papp leg.

Distribution. Korea, China.

12. *Lygocoris (Arbolygus) kerzhneri* Josifov, 1985 참고운고리장님노린재

Material examined. 1 ind., (Paratype), Kaesong, Pagon 20km N. from Kaesong, 21-23.May. 1975, on *Quercus aliena*, M. Josifov.

Distribution. Korea, Japan, USSR (Far East).

13. *Lygocoris pabulinus* (Linnaeus, 1761) 고리장님노린재

Material examined. 16 ind., Prov. Ryanggang, Mt. Paekdu-san, 1900m, 28.Aug.1971, No. 217, S. Horvatovich et J. Papp leg.

Distribution. Korea, Japan, USSR (Far East and Europe).

14. *Leptopterna dolabrata* (Linnaeus, 1758), 머리무늬장님노린재 (신칭)

Material examined. 1 ind., Prov. Ryanggang, Plateau Chann-pay, Lake Samzi, 25.Aug.1971, No. 186, S. Horvatovich et J. Papp leg.

Distribution. Korea (new record), USSR (Far East and Europe).

15. *Stenodema trispronosum* Reuter, 1904 침보리장님노린재

Material examined. 6 ind., Prov. Ryanggang, Plateau Chann-pay, Lake Samzi, 1500m, 24.Aug. 1971, No. 195, S. Horvatovich et J. Papp leg.

Distribution. Korea, China, USSR (Far East).

**16. *Stenodema sibiricum* Bergroth, 1914 북쪽보리장님노린재**

Material examined. 3 ind., Prov. Ryanggang, Plateau Chann-pay, Lake Samzi, 1600m, 25.Aug. 1971, No. 197, S. Horvatovich et J. Papp leg.

Distribution. Korea, China, USSR (Far East).

**17. *Trigonotylus coelestialium* (Kirkaldy, 1902) 빨강촉각장님노린재**

Material examined. 8 ind., Pyongyang, Pyongyang Hotel garden, 6.Aug.1971, S. Horvatovich et J. Papp leg.

Distribution. Korea, Japan, USSR (Far East).

**18. *Dryophilocoris kanyukovae* Josifov & Kerzhner, 1874 새맷시장님노린재**

Material examined. 1 ind., (Paratype), Kaesong, Pagon 20km N. Kaesong, 21-23.May.1975, on *Quercus aliena*, M. Josifov.

Distribution. Korea.

**19. *Globiceps flavomaculatus* (Fabricius, 1794) 꽃장님노린재**

Material examined. 1 ind., Prov. Ryanggang, Plateau Chann-pay, Lake Samzi, 1500m 24.Aug. 1971, No. 196, S. Horvatovich et J. Papp leg.

Distribution. Korea, USSR (Far East).

**20. *Mecomma ambulans* (Fallen, 1807) 백두원점장님노린재 (신칭)**

Material examined. 1 ind., Prov. Ryanggang, Mt. Paekdu-san, 1900m 28.Aug.1971, No. 217, S. Horvatovich et J. Papp leg.

Distribution. Korea (New record), USSR (Far East).

**21. *Halticus comitans* Josifov & Kerzhner, 1972 깡충장님노린재**

Material examined. 3 ind., Pyongyang, Mt. Ryongak-san, 25km W. from Pyongyang, 9.Aug.1971, No. 218, S. Horvatovich et J. Papp leg.

Distribution. Korea, China, USSR (Far East).

**22. *Orthocephalus funestus* Jakovlev, 1881 암수다른장님노린재**

Material examined. 10 ind., (5 males and 5 females), Kaesong, Mt. Pagon-san, Sanchondong, about 20km S.E. from Kaesong, 6.Jun.1970, No. 112, S. Mahunka et H. Steinmann leg.

Distribution. Korea, Japan, USSR (Far East).

**23. *Campylomma annulicornis* (Signoret, 1865) 검은촉각장님노린재 (신칭)**

Material examined. 1 ind., Pyongyang, Hotel garden, 4.Aug.1971, No. 138, S. Horvatovich et J. Papp leg.

Distribution. Korea (New record), USSR (Far East), China.

**24. *Phoenicocoris kyushuensis* (Linnavuori, 1961) 동해애장님노린재**

Material examined. 1 ind., Payongyang, Mt. Taesong-san, 12km N.E. from Pyongyang, 7.Aug. 1971, No. 145, S. Horvatovich et J. Papp leg.

Distribution. Korea, Japan, USSR (Far East).

**25. *Plagiognathus albipennis* (Fallen, 1829) 밝은다리장님노린재**

Material examined. 1 ind., Pyongyang, Is. Neungra. 14.Aug.1971.

Distribution. Korea, Japan, USSR (Far East and Europe).

**26. *Plagiognathus amurensis* Reuter, 1883 발해다리장님노린재**

Material examined. 1 ind., Prov. Ryanggang, Plateau Chann-pay, Lake Samzi, 1700m, 27.Aug. 1971, 206, S. Horvatovich et J. Papp leg.

Distribution. Korea, China, USSR (Far East).

**27. *Plagiognathus lividus* Reuter, 1906 다리장님노린재**

Material examined. 2 ind., Kaesong, Mt. Pagyon, 20km N.E. from Kaesong, 11.Sept.1971. No. 261, S. Horvatovich et J. Papp leg.

Distribution. Korea, China, USSR (Far East).

**28. *Psallus ater* Josifov, 1983 나도우리장님노린재**

Material examined. 2 ind., (Paratypes), Kaesong, Pagyon, 29km N. from Kaesong, 21-23.May. 1975.

Distribution. Korea.

**29. *Psallus castaneae* Josifov, 1983 밤우리장님노린재**

Material examined. 4 ind., (Paratypes), Pyongyang, Mt. Ryongak-san, 12km W. Pyongyang, 30. May.1975, on *Castanea* sp., M. Josifov.

Distribution. Korea.

**30. *Psallus koreanus* Josifov, 1983 우리장님노린재**

Material examined. 4 ind., (Paratypes), Kaesong, Pagyon, 20km N. Kaesong, 21-23.May.1975, on *Crataegus* sp., M. Josifov.

Distribution. Korea, USSR (Far East).

**31. *Psallus samdzijonicus* Josifov, 1983 삼지연우리장님노린재**

Material examined. 4 ind., (Paratypes), Prov. Ryanggang, Lake Samzi, 13-19.Jul.1974, on *Sorbus amurensis* Kaehne.

Distribution. Korea.

32. *Metatropis lesongsanicus* Josifov, 1975 대성산실노린재

Material examined. 1 ind., Pyongyang, Mt. Taesong-san, 12km N.E. from Pyongyang, 8.Aug.1971.  
Distribution. Korea.

## Family Lygaeidae 긴노린재과

33. *Cymus koreanus* Josifov & Kerzhner, 1978 우리폭긴노린재

Material examined. 10 ind., (Paratypes), Lake Taesong near Kijang, 6.Jul.1974, M. Josifov.  
Distribution. Korea.

34. *Cymus elegans* Josifov & Kerzhner, 1978 예쁜이폭긴노린재

Material examined. 9 ind., (Paratypes), Kaesong, Pagon 20km N. Kaesong, 5.Aug.1974. M. Josifov.  
Distribution. Korea.

## Family Coreidae 허리노린재과

35. *Anoplocnemis dallasi* Kiritschenko, 1916 장수허리노린재

Material examined. 1 ind., Pyongyang, Mt. Zamo-san, 60km N.E. from Pyongyang, 2.Sept.1971.  
No. 230, S. Horvatovich et. J. Papp leg.

Although this species was originally described from Eastern part of China, we could not find this species name in the identification book of Chinese Heteroptera edited by Hsiao (1977). The author of that book suggested this species and *A. binotata* (This species was a frequent species in China, especially near the places to Korean peninsula) would be a same species.

Distribution. Korea, China(?).

36. *Homocerus dilatatus* Horvath, 1879 넓적허리노린재

Material examined. 6 ind., Prov. Kangwon, Mt. Kumgang-san, Lake Samil (Samilpo), 29.May. 1970, No. 56, S. Mahunka et H. Steinmann leg.

Distribution. Korea, Japan, USSR (Far East).

37. *Cletus rusticus* Stål, 1859 시골가시허리노린재

Material examined. 4 ind., Pyongyang, Mt. Zamo-san, 60km N.E. from Pyongyang, 2.Sept.1971.  
Distribution. Korea, Japan, China.

## Family Alydidae 호리허리노린재과

38. *Riptortus clavatus* (Thunberg, 1783) 톱다리개미허리노린재

Material examined. 18 ind., Pyongyang, Mt. Zamo-san, 60km N.E. from Pyongyang, 18.Aug.1971, No. 186, S. Horvatovich et J. Papp leg.

This species occurring from Far East Asia needs to compare the specimens between China and Korea, this species is similar to *R. pedestris*, which is a common species in China.

Distribution. Korea, Taiwan, Japan.

### Family Rhopalidae 잡초노린재과

#### 39. *Liorhyssus hyalinus* (Fabricius, 1794) 투명잡초노린재

Material examined. 1 ind., Pyongyang, Pyongyang Hotel garden, 6.Aug.1971, No. 143, S. Horvatovich et J. Papp leg.

Distribution. Korea, Cosmopolitan distribution.

#### 40. *Brachycarenum tigrinus* (Shilling, 1829) 호리잡초노린재

Material examined. 1 ind., Pyongyang, Bonghwa-ri, the river Taedong, 45km E. from Pyongyang, 23.May.1970, S. Mahunka et H. Steinmann leg.

Distribution. Korea, China.

#### 41. *Rhopalus maculatus* (Fieber, 1836) 붉은잡초노린재

Material examined. 2 ind., Pyongyang, Bonghwa-ri, the river Taedong, 45km E. from Pyongyang, 23.May.1970, No. 19. S. Mahunka et H. Steinmann leg.

Distribution. Korea, China, Japan, USSR (Europe and Far East).

#### 42. *Stictopleurus punctatolnervosus minutus* Blöte, 1934 점흑다리잡초노린재

Material examined. 27 ind., Pyongyang, Sangam 45km N. from Pyongyang, 12.Aug.1971, No. 169, S. Horvatovich et J. Papp leg.

Distribution. Korea, China, USSR (Europe and Far East).

#### 43. *Myrmus lateralis* Hsiao, 1964 옆소금쟁이잡초노린재

Material examined. 1 ind., Kaesong, Mt. Pagon-san, 20km N.E. from Kaesong, 11.Sept.1971, No. 261, S. Horvatovich et J. Papp leg.

Distribution. Korea, China, USSR (Far East).

### Family Urotylidae 참나무노린재과

#### 44. *Urostylis annulicornis* (Scott, 1984) 작은주걱참나무노린재

Material examined. 1 ind., Kaesong, Mt. Pagon-san, Pagon falls, about 27km S. W. from Kaesong, 7.Jun.1970, S. Mahunka et H. Steinmann leg.

Distribution. Korea, Japan, China.

45. *Urochela tunglingensis* Yang, 1939 애두쌍무늬노린재

Material examined. 1 ind., Prov. Kangwon, Mt. Kumgang-san, Manmulsang, 30.May.1970, S. Mahunka et H. Steinmann leg.

Distribution. Korea, China.

## Family Plataspidae 알노린재과

46. *Coptosoma biguttulum* Motschulsky, 1859 눈박이알노린재

Material examined. 12 ind., Pyongyang, Sangam, 45km N. from Pyongyang, 12.Aug.1971, No. 169, S. Horvatovich et J. Papp leg.

Distribution. Korea, Japan, USSR (Far East).

## Family Pentatomidae 노린재과

47. *Graphosoma rubrolineatum* (Westwood, 1873) 홍줄노린재

Material examined. 1 ind., Pyongyang, Mt. Zamo-san, 60km N.E. from Pyongyang, 2.Sept.1971, No. 230, S. Horvatovich et J. Papp leg.

Distribution. Korea, Japan, China, USSR (Far East).

48. *Aelia fieberi* Scott, 1874 메추리노린재

Material examined. 3 ind., Prov. Ryanggang, Plateau Chann-pay, Lake Samzi (Samziyon), 1600m 28.Aug.1971, No. 218. S. Horvatovich et J. Papp leg.

Distribution. Korea, Japan, China, USSR (Far East).

49. *Carbula putoni* (Jakovlev, 1876) 가시노린재

Material examined. 7 ind., Pyongyang, Mt. Zamo-san 60km from Pyongyang, 2.Sept.1971, No. 230, S. Horvatovich et J. Papp leg.

Distribution. Korea, China, USSR (Far East).

50. *Dolycoris baccarum* (Linnaeus, 1758) 알락수염노린재

Material examined. 8 ind., Pyongyang, Mt. Lyongak-san, 25km E. from Pyongyang, 31.Aug.1971, No. 223, S. Mahunka et J. Papp leg. ; 1 ind., Prov. Kangwon Mt. Kumgang-san, environ of Hotel, Gosong, 29. May. 1970, S. Mahunka et H. Steinmann leg.; 6 ind., Pyongyang, Bonghwa-ri, the river Taedong, 45km E. from Pyongyang, 23.May.1970, S. Mahunka et H. Steinmann leg.

Distribution. Korea, Japan, China, Europe.

51. *Eurydema gebleri* Kolenati, 1846 북쪽비단노린재

Material examined. 6 ind., Kaesong, Mt. Pagyon-san, 20km N.E. from Kaesong, 11.Sept.1971, No. 261, S. Horvatovich et J. Papp leg.



Distribution. Korea, China, Turkey, USSR (Far East).

52. *Eysarcoris aeneus* Scopoli, 1763 가시점등글노린재

Material examined. 1 ind., Prov. Ryanggang, Plateau Chann-pay, Lake Samzi (Samziyon), 1600m, 28.Aug.1971, No. 218, S. Horvatovich et J. Papp leg.

Distribution. Korea, Japan, China, Europe.

53. *Halyomorpha halys* (Stål, 1855) 썩덩나무노린재

Material examined. 1 ind., Kaesong, Mt. Pagon-san, Pagon falls, 27km N.E. from Kaesong, 9. Sept.1972, No. 250, S. Horvatovich et J. Papp leg.

Distribution. Korea.

54. *Homalogonia confusa* Kerzhner, 1972 산느티나무노린재

Material examined. 6 ind., Prov. Kangwon, Mt. Kumgang-san, Gosong upper reach of the brook, below Hotel, 30.May.1970, S. Mahunka et H. Steinmann leg.

Distribution. Korea, China, USSR (Far East).

55. *Lelia decempunctata* (Motschulsky, 1859) 열점박이노린재

Material examined. 2 ind., Kaesong, Mt. Pagon, Pagon falls, 27km N.E. from Kaesong, 8.Sept. 1971, No. 246, S. Mahunka. et J. Papp leg.

Distribution. Korea, Japan, China, USSR (Far East).

56. *Pentatoma rufipes* (Linnaeus, 1758) 홍다리노린재

Material examined. 1 ind., Prov. Ryanggang, Plateau Chann-pay, Lake Samzi (Samziyon) 1600m, 25.Aug.1971, No. 197, S. Horvatovich et J. Papp leg.

Distribution. Korea, Japan, USSR (Far East and Europe), China.

57. *Plautia crossota stali* Scott, 1874 갈색날개노린재

Material examined. 1 ind., Prov. Kangwon, Mt. Kumgang-san, Gosong upper reach of the brook, below Hotel, 30.May.1970.

Distribution. Korea, Japan, China, USSR (Far East).

58. *Rubiconia peltata* Jakovlev, 1890 극동애기노린재

Material examined. 1 ind., Prov. Kangwon, Mt. Kumgang-san, Manmulsang, 30.May.1970, S. Mahunka et H. Steinmann leg.

Distribution. Korea, Japan, China, USSR (Far East).

59. *Arma custos* (Fabricius, 1794) 지나주둥이노린재

Material examined. 1 ind., Pyongyang, Sangam, 45km N. from Pyongyang, 12.Aug.1971, No. 163, S. Horvatovich et J. Papp leg.

Distribution. Korea, Japan, China, USSR (Far East).

60. *Arma koreana* Josifov & Kerzhner 1978 우리갈색주둥이노린재

Material examined. 1 ind., Pyongyang, Mt. Zamo-san, 60km N.E. from Pyongyang, 2.Sept.1971.  
No. 232, S. Horvatovich et J. Papp leg.

Distribution. Korea.

Family Phyllocephalidae 억새노린재과

61. *Gonopsis affinis* (Uhler, 1860) 억새노린재

Material examined. 2 ind., and 2 larvae, Pyongyang, Mt. Zamo-san, 60km N.E. from Pyongyang,  
2.Sept.1971.

Distribution. Korea, Japan, China.

Family Acanthosomatidae 뿔노린재과

62. *Acanthosoma crassicauda* Jakovlev, 1880 굵은가위뿔노린재

Material examined. 1 ind., Kaesong, Mt. Pagon-san, Pagon falls, about 27km S.W. from  
Kaesong, 7.Jun.1970. S. Mahunka et H. Steinmann leg.

Distribution. Korea, Japan, China, USSR (Far East).

63. *Elasmucha amurensis* Kerzhner, 1972 극동꼬마뿔노린재

Material examined. 1 ind., Prov. Kangwon, Mt. Kumgang-san, Manmulsang, 30.May.1970, S.  
Mahunka et H. Steinmann leg.

Distribution. Korea, Japan, USSR (Far East).

64. *Elasmucha dorsalis* (Jakovlev, 1876) 꼬마뿔노린재

Material examined. 3 ind., Prov. Kangwon, Mt. Kumgang-san, Manmulsang, 30.May.1970, S.  
Mahunka et H. Steinmann leg.

Distribution. Korea, Japan, USSR (Far East).

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## 북한산 노린재목 곤충의 분포조사

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헝가리 국립자연사박물관에 소장된 북한산 노린재표본을 확인해본결과 11과 48속 64종이 분류  
동정 되었으며, 그 중에서 *Leptoterna dolaborata*(머리무늬장님노린재), *Mecomma ambulans*(백두원점  
장님노린재), *Campylomma annulicornis*(검은촉각장님노린재)등 3종은 우리나라 미기록종이었다.

검색어: 분류, 노린재목, 북한

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